

## Z—20 Harness Wiring Information

### Front of Scooter

#### Harness Side

#### 1.Alarm Remote-9 pin male

pin 1	negative	0.5mm black
pin 2	alarm	0.5mm red/white
pin 3	accelerator 5V positive in	0.5mm blue/red
pin 6	accelerator 5V positive in	0.5mm black/white
pin 8	left turning	0.5mm orange
pin 9	right turning	0.5mm light blue

#### 2.accelerator-3 pin female

pin 1	accelerator positive	0.5mm green
pin 2	accelerator 5V positive c	0.5mm black/white
pin 3	negative	0.5mm black

#### 3. Dash-9 pin female

pin 2	right turning	0.5mm light blue
pin 3	left turning	0.5mm orange
pin 5	negative	0.5mm black
pin 6	far away light	0.5mm blue
pin 7	60V positive	0.5mm pink
pin 8	60V positive	0.5mm green/red
pin 9	at night 12V positive	0.5mm brown

#### 4.Left turning-2 pin male

pin 1	left turning	0.5mm orange
pin 2	negative	0.5mm black

#### 5. Right turning-2 pin male

pin 1	right turning	0.5mm light blue
pin 2	negative	0.5mm black

#### 6. Brake-2 pin male

pin 1	brake light 12V positive	0.5mm yellow/green
pin 2	12V positive	0.5mm red

#### 7.Right handlebar-6 pin male

pin 1	kill switch 12V positive	0.5mm yellow/red
pin 2	12V positive	0.5mm red
pin 3	brake light 12V positive	0.5mm yellow/green
pin 4	at night light switch	0.5mm blue/white
pin 5	12V positive	0.5mm red

#### 9 pin female

to alarm	black
to alarm	red
to alarm	gray
to alarm	gray
to alarm	yellow
to alarm	yellow

#### 3 pin male

to accelerator	white
to accelerator	red
to accelerator	black

#### 9 pin male

to dash	light blue
to dash	orange
to dash	green
to dash	blue
to dash	yellow
to dash	black
to dash	dark brown

#### 2 pin female

to left turning	orange
to left turning	black

#### 2 pin female

to right turning	light blue
to right turning	black

#### 2 pin female

to brake	yellow
to brake	red

#### 6 pin female

to right handlebar	blue/white
to right handlebar	green
to right handlebar	yellow/red
to right handlebar	brown
to right handlebar	yellow

pin 6 at night 12V positive 0.5mm brown to right handlebar dark green

### 8. Left handlebar-9 pin male

pin 1 turn to circuit breaker 12V 0.5mm gray  
 pin 2 left turning 0.5mm orange  
 pin 3 right turning 0.5mm light blue  
 pin 4 at night light switch 0.5mm blue/white  
 pin 5 near sight light 0.5mm white  
 pin 6 12V positive 0.5mm red  
 pin 8 faraway light 0.5mm blue  
 pin 9 horn 12V positive 0.5mm light green

### 9 pin female

to left handlebar gray  
 to left handlebar purple  
 to left handlebar light blue  
 to left handlebar dark green  
 to left handlebar pink  
 to left handlebar black  
 to left handlebar blue  
 to left handlebar red/ brown

## Middle Front of Scooter

### 9. Blinker-3 pin male

pin 1 ignition key 12V positive 0.5mm red  
 pin 2 turn to circuit breaker 12V 0.5mm gray  
 pin 3 negative 0.5mm black

### 3 pin female

to blinker red  
 to blinker green  
 to blinker black

### 9. Controller board - 6 pin male

pin 1 ignition key 12V positive 0.5mm red  
 pin 2 kill switch 12V positive 0.5mm yellow/red  
 pin 3 circuit breaker assembly 0.5mm pink  
 pin 4 negative 0.5mm black  
 pin 6 circuit breaker assembly 0.5mm green/red

### 6 pin female

to controller board red  
 to controller board yellow/red  
 to controller board pink  
 to controller board black  
 to controller board green/red

### 10. Front light - 4 pin male

pin 1 negative 0.5mm black  
 pin 2 near sight light 0.5mm white  
 pin 3 faraway light 0.5mm blue  
 pin 4 at night 0.5mm brown

### 4 pin female

to front light black  
 to front light white  
 to front light blue  
 to front light brown

### 11. Ignition key - 4 pin male

pin 2 ignition key 12V positive 0.5mm red/white  
 pin 4 ignition key 12V positive 0.5mm red

### 4 pin female

to ignition key black  
 to ignition key red

### 12. Horn - 2 pin

pin 1 horn 0.5mm light green  
 pin 2 negative 0.5mm black

direct to slip on connector on horn  
 direct to slip on connector on horn

## Middle back of Scooter

### 13. Kick Stand Switch - 2 pin male

pin 1 kick stand off positive 0.5mm green

### 2 pin female

to kick stand green



**23.Heat sensing switch - 2 pin male**

pin 1 heat sensing switch 12V 0.5mm red/white  
 pin 2 fan 12V positive 0.5mm blue/red

**24.Fan - 2 pin female**

pin 1 fan 12V positive 0.5mm blue/red  
 pin 2 negative(to the ground) 0.5mm black

**25.Circuit break - 2 pin**

pin 1 60V positive 0.75mm pink  
 pin 2 charger 60V positive 2.5 mm thicker red

**26.Terminal board - 1 pin**

pin 1 negative(to the ground) 2.5mm thicker black

**2 pin female**

to heat sensing switch black  
 to heat sensing switch black

**2 pin male**

to fan red  
 to fan black

**2 pin**

direct to slip on connector on Circuit  
 direct to slip on connector on Circuit

**1 pin**

to terminal board thicker black